

ZABRODIN, P.I.; PRUSLIN, Ya.A.; VAKULIN, A.N.

Laboratory investigations of the flooding of unrecovered oil
from a flooded reservoir with solvents. Trudy VNII no.42:143-
152 '65.
(MIRA 18:5)

ZABRODIN, P.I.

Experimental study of the process of miscible drive from a
flooded layer. Trudy VN.1 no.40 p78-87 '63 (MIRA 1787)

ZABRODIN, P.I.; RAKOVSKIY, N.L.; ROZENBERG, M.D.

Investigation of petroleum displacement by solvents in a model
of great length. Nauch.-tekhn. sborn. po dob. nefti no.17:16-22
'62.

(MIRA 17:8)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

VAKULIN, A.N.; ZABRODIN, P.I.

Study of the solvent flooding process. Izv. AN Azerb. SSR,
Ser. geol.-geog. nauk no.2; 104-111 '65. (MIRA 18:8)

CHERNISHEV, G.I.; ZABRODIN, P.I.; PRUSLIN, Ya.A.; PAVLOV, V.N.

Two-channel scintillation gamma-ray spectrometer for study
in boreholes. Trudy VNII no.35:30-39 '61. (MIRA 15:1)
(Oil well logging, Radiation)

OOLOGOV, I.M., prof.; KLIMONTOV, M.I.; ZABRODIN, V.A.

Results of testing brucellosis vaccine from strain No.19 on reindeer.
Veterinariia 4k no.12:29-31 D '64. (MIRA 18:9)

1. Leningradskiy veterinarnyy institut (for Golosov, Klimontov).
2. Institut sel'skogo khozyaystva Kraynego Severa (for Zabrodin).

ZABRODIN, V. A.

USSR (600)

Electric Railroads - Cars

Starting diagrams of railroad motocars serie Sd and the conditions determining their application. Trudy TSNII MPS, No. 7, 1947.

9. Monthly List of Russian Accessions, Library of Congress, October 1956, Uncl.

2

ZABRODIN, V. A., Cand. Vet. Sci. -- (diss) "Clinico-Epidemiological
Characteristics and Etiology of Bursitis in Reindeer." Len, 1957.
17 pp (Min of Agriculture USSR, Len Veterinary Acad), 100 copies
(KL, 48-57, 108)

- 51 -

GOLOSOV, I.M., doktor vet nauk; ZABRODIN, V.A., kand. vet nauk

Brucellosis in reindeer. Veterinariia 36 no.11:23-25 II '59
(MIRA 13:3)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Kraynego
Severa (for Zabrodin).
(Brucellosis) (Reindeer--Diseases and pests)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9

ZABRODIN, V.A.

Belgian electric rolling stock. Elek. i tepl. tiaga 7 no.6:
47-48 Je '63. (MIRA 16:9)
(Belgium--Electric railroads)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9

ZABRODIN, V.A.

Memorable date. Elek.1 tepl.tiaga 3 no.10:22 0 '59.
(MIREA 13:2)
(Moscow Province--Electric railroads)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

ACC NR: AP6034227

(N)

SOURCE CODE: UR/0120/66/000/005/0110/0114

AUTHOR: Nazarov, V. B.; Zabrodin, V. A.; Kirillov, P. K.; Gal'perin, L. N.

ORG: Affiliate of the Institute of Chemical Physics, AN SSSR, Chernogolovka (Filial Instituta khimicheskoy fiziki AN SSSR)

TITLE: Reversible digital to analog converter counter based on decatrons

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 110-114.

TOPIC TAGS: pulse counter, digital analog converter

ABSTRACT: Figure 1 shows a simplified diagram of the digital to analog converter, associated with an up-down counter utilizing decatrons as counting elements. Such a counter is frequently needed in automatic control applications, where it is necessary to obtain a voltage proportional to the accumulated number of pulses. While the actual counter circuitry is conventional for use with decade counting and glow transfer tubes, the method of digital to analog conversion is quite unusual. As shown in figure 1, each decade is equipped with a bank of resistors. One resistor is associated with each cathode (except "0") in each of the three decatrons. The resistor values are weighted to generate output voltage exactly proportional to the instantaneous accumulated pulse count stored in the decatrons. Constant current sources are used to supply each of the tubes. The design of the current sources is conventional, utilizing a series triode in

Card 1/2

UDC: 621.374.324

ACC NR: AP6034227

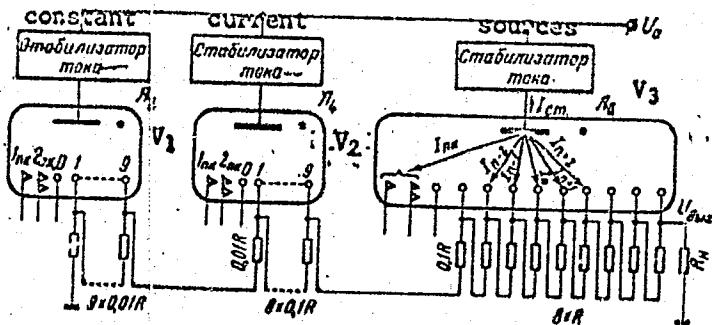


Fig. 1.

which the grid bias is maintained constant by a transistor network with a voltage reference in the form of a glow tube. The expressions for the output voltage and the predictable errors are given as functions of the pulse count and the circuit parameters. The total conversion error does not exceed 0.1% for temperature fluctuation of $\pm 5^\circ\text{C}$ and line voltage changes of $\pm 10\%$. Transistor logic is utilized in the input signal and the steering control. The instrument can be used for generation of extremely long ramp voltages. In this case the input pulses are generated by a crystal controlled oscillator. Orig. art. has: 4 figures, 5 formulas.

SUB CODE: 09 / SUBM DATE: 27Aug65 / ORIG REF: 003 / OTH REF: 001

Card 2/2

SEMEJOV, S.S.; ZABRODIN, V.I.

System for the condensation and cooling of the vapor products
obtained in the semicooking of oil shales. Trudy VNIIT no.81
75-81 '59, (Oil shales) (MIRA 13:4)

ZABR. DIN V.I.

Vsesoyuznyy nauchno-issledovatel'skiy institut gipromtekhniki.
1959. Zaryazhivayushchiye topiliva. 1 produktovye peresobotki. vyp. 8

Mishina, I. Samolevaya topiliva i produktovye peresobotki. vyp. 8
(Chemistry and Technology of Fuel and Products of Distilling, No. 8)
Leningrad, Gosudarstv. Nauchno-issled. Inst. Khim. Promst. SSSR
Gosizdat. 2,500 copies printed.

Summary: This collection of articles is intended for scientific and
engineering and technical personnel in plants of the fuel and gas

industry. The collection of articles is intended for scientific and
engineering and technical personnel in plants of the fuel and gas
industry.

CONTENTS: The results of research and experimental work carried out
in 1957 and 1958 by the All-Union Scientific Research Institute
for Shale Processing are summarized in this collection. Organic
components of oil shale from various regions, their chemical char-
acteristics and physical and chemical properties are reviewed. Actions
with the production of gas from oil shale are discussed. A frac-
tional distillation of oil shale, analysis of oil shale and abundance of
condensate of tar obtained in oil shale smelting, conversion of
tar to fuel, hydrocarbonization of shale fuel produced
from oil shale, extraction of phenol, and purification of tarry
water by animal and formic acid. Some articles are devoted to
the use of shale fuel and non-Soviet methods of shale processing.
The following topics are covered: Physical and Physicochemical Properties of
Oil Shale, Thermophysical and Physicochemical Properties of
Oil Shale From the Baltic Region. (Article 2) Heat Capacity of
Oil Shale and Temperature of Oil Shale Smelting 35

Fedorov, V.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Using Oxygen at Plants Producing Gas From Oil Shale 66

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Using Condensates and Cooling Systems
Summarized, 237; and V.I. Zabrodskii. Condensates and Cooling of
Shale Oil 75

Vorontsov, V.A. Testing of Gas Generating Stations of the Oil
Shale Industry in the Town of Baltiysk 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

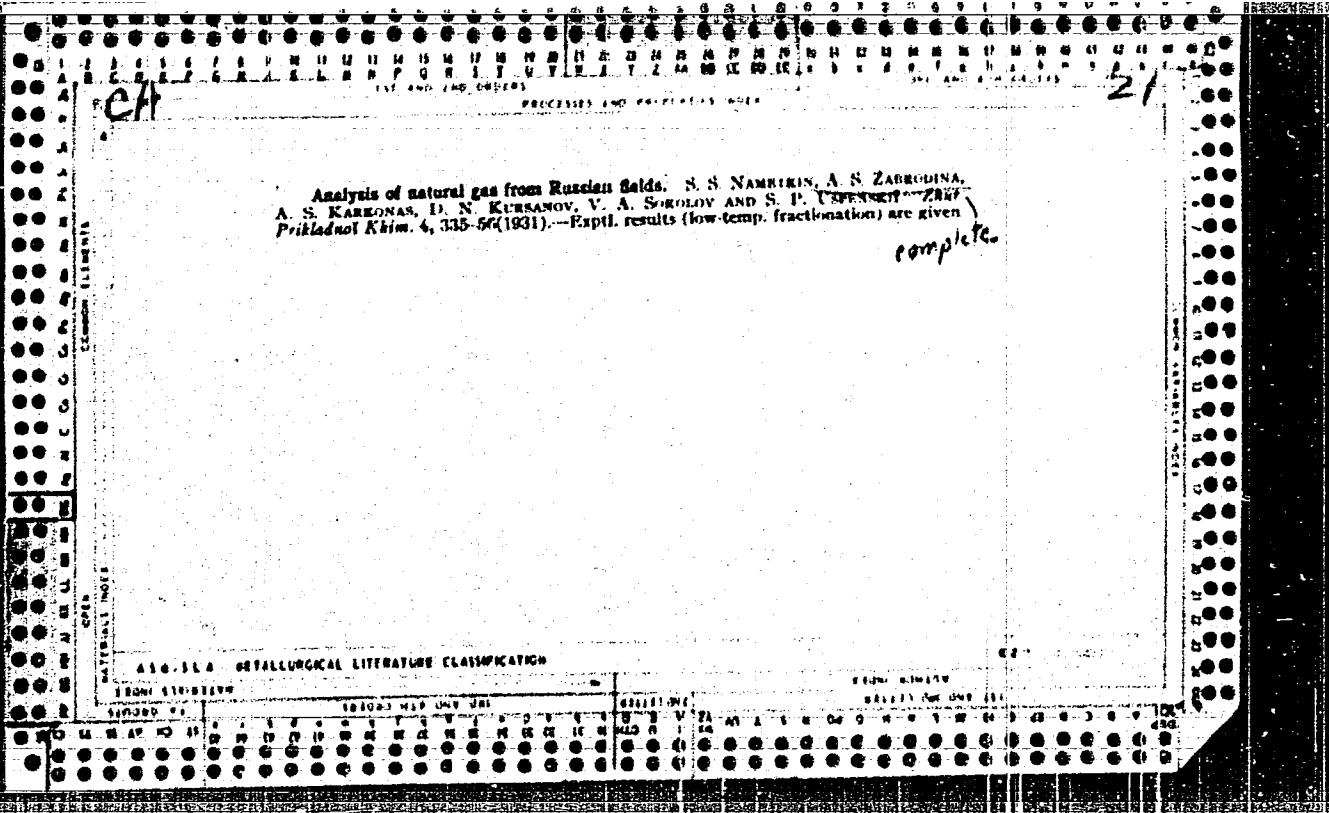
Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

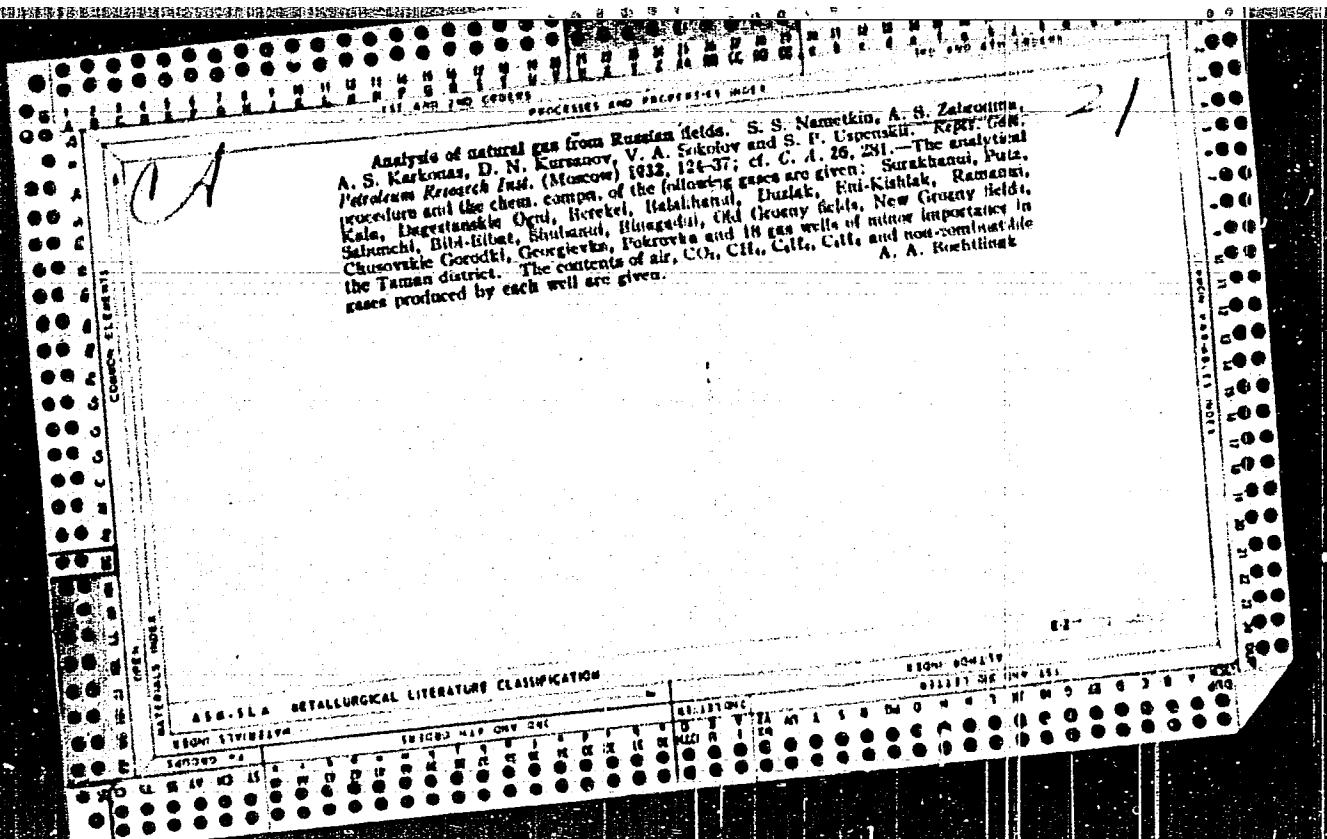
Khavin, N.I., N.M. Barabashova, and M.M. Vasil'eva. Prospects
of Oil Shale Smelting 52

GAMILEYA, Yu.N.; ZABRODIN, V.Ye.; KOGEN, V.S.

Early Sinian volcanic sedimentary deposits of the southeastern
Aldan Shield (Uchur River basin). Dokl. AN SSSR 152 no. 3;
690-692 S '63. (MIRA 16:12)

1. Aerologicheskaya ekspeditsiya No.2 Vsesoyuznogo aerologicheskogo
tresta. Predstavлено akademikom A.L.Yanshinym.





ZABRODINA, A.S.; LEVINA, S.Ya.

Use of copper for the absorption of halogens in the microdetermination
of carbon and hydrogen. Zhur.anal.khim. 17 no.5:644-646 Ag '62.
(MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Carbon--Analysis) (Hydrogen--Analysis) (Halogen compounds)

ZABRODINA, A. S.

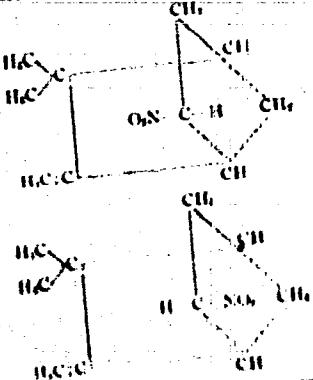
"Recherches dans le domaine des homologues du groupe de camphre. Communication XII".
Namejetkine, S. S. et Zabrodina, A. S. (p. 1666)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1936, Vol. 6, No. 11

C

New series of complexes derivative... S. N. Nagorkin
and A. S. Smirnov. Bull. Acad. sci. U. R. S. S. Classe
sci. math., Ser. chim., 1937, 1915-23 (in German 1938);
C. A. 31, 25069. - *N,N*-dimethylphosphine (I), previously
obtained as the sole neutral product of the reaction of dilute
HNO₃ on tricarbonyl (C. A. 30, 10669), exists in 2 modi-
fied forms. liquid, b.p. 110-115°, d₄²⁰ 1.0162,
M. p. 49-50 (solid, for C₂H₅NO₃, with a correction for
the CH₃ double bonds, 49.65), and crystall. in 111-117°
from the product, m. p. again 114°. Contrary
to Asahina and Tukamoto (C. A. 31, 3890), the 47%
sept. from I in NaOH with 10% starch at 0°, contrary

modification is not the rot form of I, because it is a stable
complex, is sol. only in conc. NaOH; on heating and
does not give the red reaction of iron(III) compds. with
FeCl₃. Equally erroneous is their assumption that the
liquid form on heating is converted into the liquid I,
because on heating (preferably with stirring) it solidifies
to a product, m. p. again 114°. The 2 forms give an identical
conductimetrically, in 100%. It is postulated that the crystal
form is a stereoisomeric modification of the liquid I.



ASTM-A METALLURGICAL LITERATURE CLASSIFICATION

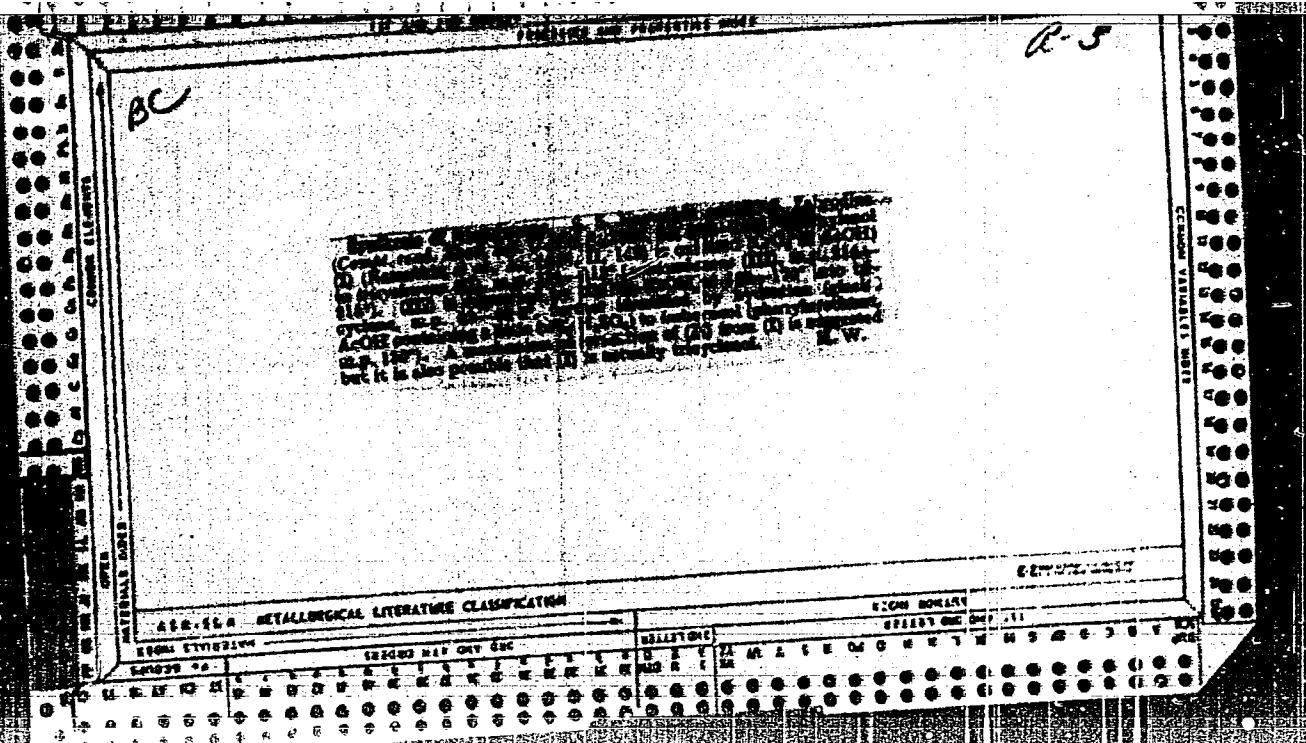
Which of these configurations corresponds to the liquid and cryst. I has not yet been determined. *o-Toluotropophenone*, $\text{C}_9\text{H}_8\text{NO}_2$ (the acet form), m. 60°, was obtained when the liquid I was heated with a little 30% NaOH , then dilut. with H_2O , the turbid mass, washed with petro-ether and neutralized exactly with 20% H_2SO_4 , at -4°. The ppt. was then filtered off, washed with fed water, dried for 1 hr. in a vacuum desiccator coated with ice, then dissolved in dry Et_2O and crystal. over HgSCl_2 in Et_2O . The compd. gives all the reactions of an iso- NO_2 compd. and is converted into the cryst. I by treatment c with MeOH and HgO . *o-Aminotropophenone*, bp. 197°, $d_{4}^{20} 1.4038$, M. R. 46.05 (calcd. 46.83) resulted in 3.5 g. yield from 8 g. I (liquified) by reduction with Zn dust in AcOH . This was converted into the $\text{C}_9\text{H}_8\text{N}$ - Me_2OII by treating it with MeI in MeOH with 2 alternate addns. of KOH in 20% alc., and MeI and refluxing at 45-50° for 20 hrs. The distill. residue, after drying over HgSCl_2 in Et_2O and cryst. with alc. alc., was decomposed with AgOEt and filtered. The soln. was cooled, and then distilled, giving, after steam distillation, 4 g. of a compd. $\text{C}_9\text{H}_8\text{O}$, bp. 149-50°, m. 41.5-2°, identified as isocamphene.

diene (or camphene) (C_8H_{10} ; $\text{C}_8\text{H}_8\text{O}$, $\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{C}_2\text{H}_4$)

I (II). It reacts similarly to camphene with Br_2 in CHCl_3 , KMnO_4 and HNO_3 , and similarly to cyclohexadiene with alc. HgSO_4 (1:1), forming successively a yellow, light and dark red soln. Isocamphene and camphene do not give these color reactions. Titration of II with NaClH gave 101.2% for the camph. C₈H₁₀ with 2 double bonds. II (2.43 g.) in 0.5 g. of 100% AcOH with 0.2 g. of 50% HgSO_4 , refluxed at 50° for 8 hrs., gave 2.3 g. of homologous acetate, bp. 101-7°, $d_4^{20} 1.010$, m. 140.02, M. R. 21.08 (calcd. for $\text{C}_8\text{H}_8\text{OAc}$, 64.4). The ester reacted with alc. KOH , then exdt. with Bz_2O and the ester, residue recovered from C_6H_6 at 0°, gave 2 g. borosilicid, bp. 103-4°, m. 63-1°. The alc. (an unsat. analog of isobenzene) and its ester are the only known true deriva. of bicycylene. *o-Tropophenone*, m. 77.8°, was obtained in 90% yield by oxidation of I with 1.5% KMnO_4 at 0° (cf. loc. cit.). At temps. above 20° the white crystals change to a yellow liquid, which at lower temps. (winter) is changed again to its former crystal state. *Concamphene*, m. 203° (decompn.); ester, m. 117-18°. *Appar.* *Id. references.* (Edu. Blue)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9



APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

PA 55/49T13

ZABRODINA, A. S.

USSR/Chemistry - Camphenone
Chemistry - Hydrocamphenone

Nov 48

"Alpha-Dihydrocamphenone and Several Transformations of It," A. S. Zabrodin, Moscow State University imeni M. V. Lomonosov, 3 1/3 pp

"Dok Ak Nauk SSSR" Vol IXXXX, No 3

Comparative melting points are given for following substance obtained by Lipp and the author: alpha-dihydrocamphenone, semicarbazide alpha-dihydrocamphenone, cisiscamphorcarboxylic acid and trans-isocamphorcarboxylic acid. Submitted by Acad S. S. Nametkin 17 Sep 48.

55/49T13

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9

c4

ZABRODINA, A.S.

2

The creative pack of Sergei Semenovich Kostokin.
A. S. Zabrodina, D. N. Kurmanov, N. N. Mel'sikov, and
A. R. Ruzhentseva. *Ufimski Akim*, 10, 657-72(1950).—
Obituary, with portrait. N. T.

1951

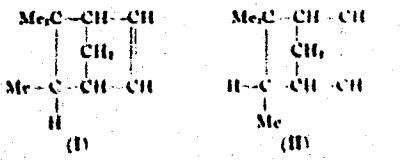
APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

CA

10

Isocamphene, a new terpene of $C_{10}H_{16}$ composition. A. S. Zabudov (M.V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.R.* 70, 420 (1951). Reduction of 12 g. α -dihydrocamphene, m. 108-0°, with 10 g. Na in aq. KOH-Bu₄N gave 5% corresponding powder, m. 141.5-3.5°, and steam-volatile α -isocamphene, m. 102.8° (from petr. ether), apparently a stereoisomer mixt. The Chugaev method (*C.A.* 7, 3120) applied to this alk. gave a red oily methyl sulfate, which on thermal decompr. at 100-200° gave isocamphene, m. 68.0°, b.p. 154.8°, contg. some 8% tricelene on the basis of treatment with BaOOH; oxidation with KMnO₄ in C₆H₆ at 30.0° gave *cis*-isocamphoric acid, m. 221°. The structure of iso-
camphene is I or II:



G. M. Kosolapoff

1137

ZABRODINA, A.S.

ZABRODINA, A.S.; MIROSHINA, V.P.

Simultaneous microdetermination of carbon, hydrogen, and alkali metal lithium, sodium, potassium). Vest.Mosk.un.Ser.mat., nekh., astron., fiz., khim. 12 no.2:195-198 '57. (MIHA 10:12)

1.Kafedra organicheskoy khimii Moskovskogo universiteta.
(Chemistry, Analytical--Quantitative)
(Microchemistry)

ZABRODINA, A.S.; SEVINA, S.Ya.

Microdetermination of carbon and hydrogen in silane organic compounds.
Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5:181-186
'57. (MIRA 11:9)

1.Kafedra organicheskoy khimii Moskovskogo gosudarstvennogo universiteta.
(Carbon) (Hydrogen) (Silane)

465

AUTHORS:

Zabrodina, A. S.; Suvorova, K. M.; and Sheynina, S. Z.

TITLE:

2-Propylcamphane and its Derivatives (2-Propilkamfan i ego proizvodnyye)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 138-141 (U.S.S.R.)

ABSTRACT:

Studying the chemical conversions of 2-allylcamphane, it was discovered that it easily attracts hydrogen forming 2-propylcamphane as well as bromine thus giving 2-(beta-gamma-dibromopropyl)-camphane. The hydrogen bromide dissolved in ice-cold acetic acid attracts 2-allylcamphane in contrast to the Markovnikov law offering good yields of 2-(gamma-bromopropyl)-camphane. The addition of hydrogen bromide to 2-allylcamphane in an aqueous medium takes place also in contrast to the Markovnikov law even though the yield is much lower. The structure of 2-(gamma-bromopropyl)-camphane was proven by the fact that during its heating with sodium acetate in ice-cold acetic acid, good yields of 2-(gamma-acetoxypropyl)-camphane were obtained. Saponification of the latter yielded 2-(gamma-oxypropyl) camphane. The determination of the primary alcohol content by the Radcliffe-Chadderton method (4) showed that it really is primary alcohol. The oxidation of 2-(gamma-oxypropyl)-camphane with either

Card 1/2

C

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9

ZABRODINA, A.S.; ZABRODINA, K.S.

Nitration of paraffins, cycloparaffins and paraffin chain of
aromatic compounds; the M.I.Konovalov reaction. Reakts.org.
scd. 7:133-222 '58.
(Paraffins) (Nitration) (MIIA 12:5)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

5(2),5(3)

AUTHORS:

Zabrodina, A.S., and Pagreyeva, M.R.

EOV/55-56-4-23/31

TITLE:

A Micro Process for the Determination of Selenium in Organic Combinations of C,H,O,N,Se (Mikrometod opredeleniya selen'a v organiceskikh soyedineniyakh sostava C,H,O,N,Se)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematika, mehanika, astronomiya, fizika, khimiya, 1958, Nr. 4, pp 187-192 (USSR)

ABSTRACT:

It is stated that during the combustion of selenium-organic combinations in an oxygen flow the selenium can be changed into selenoxide also without platinum contacts (compare Umezawa [Ref4]). For a not too quick combustion, this fact can be used for a simplified proof of selenium, where the content of selenium dioxide is determined with the aid of iodine. The error is $\pm 0.3\%$. The selenium-organic combinations investigated by the authors were derived from the laboratory for the chemistry of heterocyclic combinations (leader: Professor Yu.K.Yur'yev). There are 5 references, 4 of which are German, and 1 Japanese.

ASSOCIATION: Kafedra organicheskoy khimii (Chair of Organic Chemistry)

SUBMITTED: July 1, 1957

Card 1/1

5(2),5(3)

AUTHORS:

Yegorova, N.P., and Zabrodina, A.S.

507/55-58-4-31/31

TITLE:

Microprobe of Carbon and Hydrogen (Mikropradeleniye углерода
и водорода)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya estestvennye, khimicheskaya, astronomicheskaya, 1959, Nr 4, pp 232-233 (USSR)

ABSTRACT: Using the results of M.O.Korshun and V.A.Zhilina the author develops a method for the microprobe of carbon and hydrogen in organic combinations. The combination to be analyzed is burned with a great velocity (3-4 minutes) in a broad empty tube under a great surplus of oxygen. An error by incomplete burning is not possible. The exactness of the method is ca.

± 0.2%.
There are 5 references, 1 of which is Soviet, 2 English, and 2 American.

ASSOCIATION: Kafedra organicheskoy khimii (Chair of Organic Chemistry)

SUBMITTED: April 2, 1958

Card 1/1

USCOMM DC 60.538

ZABRODINA, A.S.; YEMIROVA, N.F.

Simultaneous microdetermination of carbon, hydrogen, and a halogen.
Vest. Mosk un. Ser. 2: Khim. 15 no.4:66-70 Ju-Ag '60. (MIRA 13#9)

1. Laboratoriya mikroanaliza Moskovskogo universiteta.
(Carbon--Analysis) (Hydrogen--Analysis)
(Halogens--Analysis)

ZABRODINA, A.S.; KHLYSTOVA, A.P.

Microde ermination of selenium in organic compounds containing chlorine, bromine, and sulfur. Vest.Mosk.un.Ser. 2: Khim. 15 no.1:69-72 '60. (MIRA 13:7)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Selenium-Analysis)

ZABRODINA, A.S.; LEVINA, A.Ya.

Microdetermination of carbon and hydrogen in double salts of aryl diazonium chloride and metal chlorides. Vest. Mosk. un. Ser. 2; Khim. 15 no.1:55-56 '60. (MIRA 13:?)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Carbon--Analysis) (Hydrogen--Analysis) (Diazonium Compounds)

CHARUKHINA, Z.N., kand.tekhn.nauk; ZABRODINA, I.P., inzh.

Determining the concentration of chromium salts by the density of
the solutions. Nauch.issl.trudy NIIIMP no.11:37-40 '62. (MIRA 16:5)
(Tanning)

CHARUKHINA, Z.N., kand.tekhn.nauk; KIVSHITS, Ye.A., mladshiy nauchnyy sotrudnik;
GRIGORYEVA, N.V., starshiy nauchnyy sotrudnik; ZABRODINA, I.P.,
laborant

Determining the concentration of solutions used in fur manufacture
by their electric conductivity. Nauch.-issl.trudy NIIMP no.9:56-
70 '59. (MIRA 14:5)

(Fur—Dressing and dyeing)
(Solution(Chemistry)—Electric properties)

CHARUKHINA, Z.N., kand. tekhn. nauk; ZABRODINA, I.P., mладший научный сотрудник

Possibility of the application of the chromatographic analysis for
determining the changes occurring in the amino acid composition of
the fur hair during dressing. Nauch. issl. trudy NIIF no. 12:56-62
'63.

(100A 17:11)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9

ZABRODINA, K. A.

Technic of taking electrocardiograms. Med. sestra, Moskva
no.7:27-28 July 1951. (CLML 20:11)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320017-9"

ZABRODINA, K.S.

Bromometric microdetermination of organic sulfides. Izv.AN SSSR
Otd.khim.nauk no.5:941-943 My '63.
(MIRA 16:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Sulfides) (Bromometry)

10

The reaction of aldehydes with alcohols, B. N. Ratovskii and K. S. Zabudina, *J. Applied Chem.* (U. S. S. R.) 11, 302-105m German 310 (1938).—The work of Schimmel (cf. C. A. 28, 9419) was checked and extended. In all cases, equal vols. of the following aldehydes and alc. were mixed: citronellal and citronellol; citronellal and decyl alc.; PhCH₂CHO and PhCH₂CH₂OH; PhCH₂CH₂CHO and PhCH₂CH₂CH₂OH; citral and PhCH₂CH₂OH; anisinaldehyde and PhCH₂CH₂OH.

The reaction was continued until d.p., nD₂₀ and sp. of the reaction mixt. became const. At a low temp. (1.5-2°) the reaction terminated in 1-3 hrs. and at 40-60° in 7-8 min. The reaction of citronellal with citronellol in the EtOH was accomplished in 45 min. (with the same velocity as without a solvent). The separ. by the usual methods of the semiacetals formed caused a decompr. to aldehyde and alc. The solv. of the semiacetals in *Cello*, pet. ether and 80% EtOH was almost the same as that of the initial substances. However, the semiacetals were not very sol. in the 70 or 80% EtOH, an addn. of which (in an amt. sufficient to dissolve an initial aldehyde and alc.) sep'd. an oil layer. The alc. soln. was addn. with NaCl soln. sep'd. a substance having the same d. and n as the above oil. The data, obtained by measuring the parachors and the amts. of unreacted aldehydes by the modified titr. method (in weakly alk. soln. at 60°), disclosed that the reaction proceeded quantitatively. It was found also that the alcs. did not replace each other in the semiacetal mol. The secondary alc. only partially reacted with the aldehydes, as was observed in the following cases: citronellal and thujyl alc.; hydroxycitronellal and thujyl alc.; citronellal and menthol; and a mixt. of the latter + PhCH₂CH₂OH. The tertiary alc. did not react with the aldehydes at all as was shown in the following cases: citronellal and terpinol; citronellal and linalool; and PhCH₂CH₂CHO and terpinol or linalool. Only aldehydes having a CH₃ group adjacent to the CHO, react with alc. Nine references. A. A. Indeney

ATA-SLA METALLURGICAL LITERATURE CLASSIFICATION

1940-1944

1945-1949

1950-1954

1955-1959

1960-1964

CA
13
Polyallyl methacrylate and its copolymers. B. N. Rutovskii and K. S. Zolotnikov. *Org. Chem. Ind. (U.S.S.R.)* 7, 141-3 (1940). Polymerization of pure allyl methacrylate without a catalyst at 65° for 10 hrs. yielded a colorless, transparent product that did not soften at 240° and which was insol. and did not swell in acetone, chloroform, dichloroethane and ethyl acetate. A similar product was obtained by polymerizing in the presence of 0.61% benzoyl peroxide at 65° for 8 hrs. Similar results were also obtained by polymerizing 10% or more allyl methacrylate with methyl methacrylate in the presence of 0.8% catalyst while with less than 10% allyl methacrylate the products were sol. and swelled in the above solvents. The polymerization was also carried out by the emulsion method in the presence of 2% sodium lauryl sulfate and 0.5% benzoyl peroxide at 80° for 2 hrs. The powder polymer was partly sol. at 120° and not completely even at 240°, and was insol. in any of the above solvents. This polymer was molded at 100° under a pressure of 500 kg./sq. cm. after which it did not soften at 240°. The powder of the copolymer which was obtained by polymerization in ampoules could not be molded. The copolymerization of methyl methacrylate with methoxystyrene or with propoxystyrene gave only sol. products. R. Z. K.

10

Neutral reaction products from reaction of iodocetane with dilute nitric acid. A. S. Nametkin and K. S. Zabotina (M. V. Lomonosov State Univ., Moscow), *Doklady Akad. Nauk S.S.R.* 75, 395 (1950); cf. following abstract. Heating 8 g. iodocetane, b.p. 99.0-0.5°, d_4^{20} 0.9018, n_D^{20} 1.4016, with 35 ml. HNO_3 (d. 1.076) 20 hrs. In a sealed tube to 143-7° with periodic relief of the pressure, followed by washing with $NaHCO_3$, gave among the neutral products (from combined runs with 316 g. hydrocarbons): 138 g. unreacted iodocetane; some $MeNO_2$ (detected qualitatively); 1.7 g. $MeCCH_2Cl$, b.p. 126.5-0.0°, d_4^{20} 0.9040, n_D^{20} 1.4032; 8 g. $MeCCOCH_2Me$, b.p. 133.5-0.0°, d_4^{20} 0.9075, n_D^{20} 1.4060;

and a little Me_2CO . Washing the residue with strong $NaOH$ resulted in isolation of 2.4 g. $MeCCH_2(CNO_2)_2CH_3$, b.p. 60-71°, d_4^{20} 0.9313, n_D^{20} 1.4388; an unstated but considerable amt. of $MeCCH_2(CNO_2)_2Me$, b.p. 100.4°, d_4^{20} 0.9394, n_D^{20} 1.4300 (heated further as above, the product decomp. to $MeNO_2$ and $MeCCH_2Cl$); and 5.1 g. $MeC(CH_2C(NO_2)_2)_2$, b.p. 124-4.5°, d_4^{20} 1.1022, n_D^{20} 1.4520, which, warmed with alc. $NaOH$, yields the Na salt of the mononitro deriv.

G. M. Kosolapoff

CA

10

Connection between reactions of nitration and oxidation with nitric acid in saturated hydrocarbons. S. S. Nametkin and K. S. Zabrodina (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.R.*, 72, 701-2 (1950); cf. preceding abstr. Nitration of isobutane yields $\text{Me}_2\text{CHCH}(\text{NO}_2)\text{CMe}_2$, $\text{Me}_2\text{CHCOCH}_3$, $\text{Me}_2\text{CCO}_2\text{H}$, and Me_2CO . Here the action is centered at a secondary C atom. At a tertiary C atom, where an isonitro deriv. is impossible, a loss of nitronium takes place, followed by formation of ketones and their oxidation products (cf. preceding papers). The results confirm the connection between nitration and oxidation reactions in dil. HNO_3 .

G. M. Koslapoff

1157

ZABROVINA, K. S.

"Studying the Nitration of Paraffins Having a Quaternary Carbon Atom (2,2,4-Trimethylpentane) by Konovalov's Method." Sub 25 May 51,
Moscow Order of Lenin State University M. V. Lomonosov.

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

CA

10

Acidic products of reaction of isoctane with nitric acid.
S. S. Nametkin and K. S. Zabrodina (M. V. Lomonosov State Univ., Moscow); *Doklady Akad. Nauk S.S.R.* 75, 543-5(1951); cf. *C.A.* 45, 6008d.—Fractional steam distn. used as the basis for the sepn. of the acidic products of the reaction of isoctane with HNO₃ (d. 1.075) showed the presence of: AcOH, iso-PrCO₂H, Me₂CCO₂H (*p*-phenylphenoxy ester, m. 112.8-13.0°), tert-BuCH₂CO₂H, *α*,*β*-dimethylsuccinic acid, and traces of (CO₂H). G. M. K.

1951

ZABRODINA, K. S.

USSR/Chemistry - Nitroparaffins
fuels, Propellants

Nov 51

"On Some Transformations of 2,2,4-Trimethyl-4-nitropentane," Acad. S.S. Namekin (Deceased)

Nitropentane, "Acad. S.S. Namekin (Deceased)"
K. S. Zabrodina, Moscow State University M. V. LomonosovUDSSR/Chemistry - Nitroparaffins
Vol XXXI, No 1, pp 55-57"Zhur Ak Nauk SSSR" Vol XXXI, No 1, pp 55-57
lists data on 2,2,4-trimethyl-4-nitropentane
(tert-nitroisooctane, I), principal product
obtained by them in the oxidation of isoctane
in sealed tubes at 153° with HNO₃ of sp gr

1981A

USSR/Chemistry - Nitroparaffins (Contd) Nov 51

"On Some Transformations of 2,2,4-Trimethyl-4-nitropentane," Acad. S.S. Namekin (Deceased)
Nitropentane, "Acad. S.S. Namekin (Deceased)"
K. S. Zabrodina, Moscow State University M. V. Lomonosov
UDSSR/Chemistry - Nitroparaffins
Vol XXXI, No 1, pp 55-57
lists data on 2,2,4-trimethyl-4-nitropentane
(tert-nitroisooctane, I), principal product
obtained by them in the oxidation of isoctane
in sealed tubes at 153° with HNO₃ of sp gr

1981A

ZABRODIEA, K. S.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Analytical Chemistry

(3) clm ✓
Gasometric determination of aldehydes and ketones
V. A. Tsvetkov and K. S. Zabrodina (M. V. Lomonosov
State Univ., Moscow). "DOKLADY Akad. Nauk S.S.R. R."
1181-4 (1953).—The following gasometric method for alde-
hydes and ketones, run in pyridine soln., is described. In a
small distn. flask, treat 3 ml. of 5% PhNH₂H₂HCl soln.
with 4 ml. pyridine and a sample of the substance to be
tested; heat the mixt. on a water bath 30-45 min. or keep at
room temp. 2-4 hrs. Then add 10 ml. HgO, fit the flask
with a dropping funnel whose tip goes to the bottom of the
flask and connect the side-tube of the flask to an azotometer
contg. 50% aq. EtOH for absorption of Et₂O. Displace
the air by warming the vessel and add red Cu(NO₃)₂
soln. to the reaction mixt. until a green color forms; when
N₂ evolution stops, add 2 ml. 10% PSC₁ and 5-7 ml
Et₂O and expel residual N₂ into the azotometer by warming
in this in turn a variety of aldehydes and ketones showed
their CO content within 2.005 units G. M. K.

KLIMOVA, V.A.; ZABRODINA, K.S.

Microdetermination of alkoxyl groups by the Zeisel-Vieboch modified method. Zhur. anal. khim. 18 no.1:109-112 Ja '63.
(MIRA 16:4)

1. N.D. Zelinsky Institute of Organic Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Alkoxy groups)

L 20126-66	BKT (u) / EMP (j)	BU	
ACC NR. AP6012084		SOURCE CODE: UR/0062/65/000/001/0176/0120	
AUTHOR: Klimov, V. A.; Zabrodina, K. S.; Shitikova, N. L.			22 B
ORG: none			
TITLE: Microdetermination of alkoxy groups in organo-silicon and organo-germanium compounds			
SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1965, 178-180			
TOPIC TAGS: microchemical analysis, organogermanium compound, organosilicon compound, orthophosphoric acid, iodine compound			
ABSTRACT: A modification of the "Tacyzel-Fibek" method is proposed for the microdetermination of alkoxy groups in organosilicon and organogermanium compounds. This modification avoids the use of hydriodic acid, which decomposes on standing, by using a mixture of potassium iodide and orthophosphoric acid to decompose the alkoxyl compound; upon being heated this mixture forms hydriodic acid. The results of the microdetermination of the alkoxy groups in triethylmethoxysilane, diethylmethoxysilane, dimethylidieethoxysilane, methyltriethoxygermanium, and dimethyldipropoxygermanium are presented. A detailed description of the determination is also presented. Orig. art. has: 2 figures. [JPRS]			
SUB CODE: 07 / SUBM DATE: 28May64 / ORIG REF: 004 / OTH REF: 001			
Card 1/1 BK		UDC: 543.063	

KLYMOVA, V.A.; ZABRODINA, K.S.; SHITIKOVA, N.L.

Microdetermination of alkoxy groups in sulfonic acid esters. Izv.
AN SSSR, Ser. khim. no.7; 1288-1289 '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KLIMOVA, V.A.; ZABRODINA, K.S.; SHITIKOVA, N.L.

Microdetermination of alkoxy groups in silicon and germanium organic compounds. Izv. AN SSSR Ser. khim. no.1:178-180 '65. (MIEA 18:2)

1. Institut organicheskoy khimii im. N.G. Zelinskogo AN SSSR.

KLIMOVA, V.A.; ZABRODINA, K.S.

Microdetermination of methoxy and ethoxy groups. Izv. AN SSSR
Otd.khim.nauk no.12:2234-2235 D '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ethoxy group) (Methoxy group)

KLIMOVA, V.A.; ZABRODINA, K.S.

Microdetermination of primary and secondary saturated nitro compounds. Izv. AN SSSR. Otd. khim. nauk no. 1:176-177 Ja '61.
(MIRA. 14:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Nitro compounds)

5(3)

SOV/62-59-7-33/38

AUTHORS: Klimova, V. A., Zabrodina, K. S.

TITLE: Microdetermination of the Keto Group With the Oximating Method (Mikroopredeleniye keto-gruppy metodom oksimirovaniye)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 7, pp 1343 - 1345 (USSR)

ABSTRACT: A previous paper (Ref 1) had revealed that the formation of oximes with hydrochloric hydroxyl amine may be made use of for the microdetermination of the carbonyl group; it takes place by the following reaction: $\text{RCOR}_1 + \text{NH}_2\text{OH} \cdot \text{HCl} \rightarrow \text{RC}(\text{=NOH})\text{R}_1 + \text{H}_2\text{O} + \text{HCl}$. This reaction is very quick and takes place at room temperature. Heating is required for compounds of the type $\text{CH}-\text{CO}-\text{CH}$ or $\text{C}-\text{CO}-\text{CH}$. Under the conditions mentioned an investigation was carried out here to determine the carbonyl group in ketones, esters of ketonic acid and also in diketones which permit oximation. The analytic data are compiled in a table. The determination course is described. It was found that when using 0.3 normal solution of hydrochloric hydroxyl amine, the accuracy of the determination method is higher as

Card 1/2

Microdetermination of the Keto Group With the
Oximating Method

Sov/62-59-7-33/38

compared with the utilization of 0.5 n-solution. The following formula was applied for the computation of the β -content of CO with the potentiometric titration:

%CO-group = $\frac{28.1N(a-b) \cdot 100}{m}$. There are 1 table and 1 Soviet reference.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskogo of the Academy of Sciences, USSR)

SUBMITTED: January 14, 1959

Card 2/2

ZABRODINA, A.S.; ZABRODINA, K.S.

Nitration of paraffins, cycloparaffins and paraffin chain of
aromatic compounds; the M.I.Konovalov reaction. Reakts.org.
scied. 7:133-222 '58. (MIRA 12:5)
(Paraffins) (Nitration)

KHIMOVA, V.A.; ZABRODINA, K.S.

Microdetermination of the carbonyl group by oximation. Izv. AN
SSSR. Otd.khim.nauk no.1:175-176 Ja '59. (MIRA 12:4)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Carbonyl group) (Oximes)

5(3)

SOV/62-59-4-3/42

AUTHORS: Klimova, V. A., Zabrodina, K. S.

TITLE: Simultaneous Microdetermination of Carbon, Hydrogen, and Nitrogen in Nitro Compounds (Odnovremennoye mikroopredeleniye ugleroda, vodoroda i azota v nitrosoyedineniyakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 4, pp 582-585 (USSR)

ABSTRACT: The methods described in publications for the simultaneous determination of carbon, hydrogen, and nitrogen in organic compounds are based on the combustion of the substance up to carbonic acid, water, and elemental nitrogen. The method suggested in the present paper consists in burning the substance to be investigated during evaporation in an oxygen stream on platinum. Carbonic acid, water, and nitrogen dioxide, which are formed, are quantitatively absorbed by suitable absorbers and the percentage contents of C, H, N are calculated from the weight increase of the absorbers. In this method the mode of combustion is of decisive importance. A combustion with preceding pyrolysis as is employed in the determination of C and H is not suitable because it reduces the nitrogen dioxide yield

Card 1/3

SOV/62-59-4-3/42

Simultaneous Microdetermination of Carbon, Hydrogen, and Nitrogen in Nitro Compounds

and involves the formation of a considerable amount of elemental nitrogen. To avoid pyrolysis the evaporation must be slow. The rate of the oxygen stream is of high importance. The optimum rate is 5-8 milliliters per minute (Table 1). Nitrogen dioxide is collected by manganese dioxide (Ref 8), as well as by silica gel impregnated with a 0.02 M $K_2Cr_2O_7$ solution in sulphuric acid (specific gravity 1.84) (Ref 9). The latter has the advantage of absorbing large amounts of nitrogen oxides for an equal length of layer. A certain amount may be retained by the condensation water at the inlet end of the anhydron-filled absorption apparatus. This leads to inaccurate results. For this reason the anhydron-filled apparatus is heated to 75-85° at this point. The temperature of the apparatus filled with anhydron must be less than 100° (Ref 10). During the analysis of haloid-containing nitro compounds a silver gauze roll is also placed in the combustion tube. During the combustion of nitro compounds containing no haloid only a platinum gauze roll 15 cm long is placed in the zone of the elongated furnace. Carbonic acid is absorbed by ascarite and water by anhydron. A scheme of the in-

Card 2/3

SOV/62-59-4-3/42

Simultaneous Microdetermination of Carbon, Hydrogen, and Nitrogen in Nitro Compounds

Installation for the simultaneous microdetermination of C, H, N in nitro compounds having the composition C, H, N, O, Cl, Br is shown in the figure. Analysis results are given in table 2. There are 1 figure, 2 tables, and 10 references, 3 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskii of the Academy of Sciences, USSR)

SUBMITTED: July 16, 1957

Card 3/3

5(3)

SOV/G2-59-1-34/38

AUTHORS: Klimova, V. A., Zabrodina, K. S.

TITLE: Microdetermination of the Carbonyl Group by the Oximation Method (Mikroopredeleniye karbonil'noy gruppy metodom oksimirovaniya)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 1, pp 175 - 176 (USSR)

ABSTRACT: The method of microdetermination suggested in this communication is based on the oximation with hydroxylamine hydrochloride in the presence of triethanol amine by which the hydrochloric acid separated in the reaction is neutralized. The excess of triethanol amine is determined by titration with hydrochloric acid. Bromophenol blue is used as an indicator. In order to determine the end of titration more precisely sodium chloride solution is added. The method can be applied for the determination of aldehydes and ketones which in addition to the carbonyl group possess also methylene groups with mobile hydrogen. This method has an accuracy of $\pm 0.3\%$. There are 1 table and 4 references.

Card 1/2

Microdetermination of the Carbonyl Group by the
Oximation Method

SOV/62-59-1-34/38

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry imeni N. D. Ze-
linskogo of the Academy of Sciences, USSR)

SUBMITTED: June 20, 1958

Card 2/2

BLYMIN, I.Sh.; POIUKHINA, K.P.; ZABRODINA, L.I.

Hekim serum reaction in the diagnosis of cancer. Vop. onk. 11
no.2:91 '65. (MIRA 18:7)

1. Iz Kuybyshevskogo oblastnogo onkologicheskogo dispensariya
(glavnnyy vrach - N.N. Rodionova) i polikliniki Nr. 7 (glavnnyy
vrach L.Ya. Brodskaya).

KORSAKOVA, M. P. and ZAFRODINA, O.L.

"The Course of Development of Bacterial Cultures
and the Formation of Bacteriophage," Sbornik
Nauchnykh Rabot Vologod NII Epidemiol i Mikrobiol,
(Collection of Scientific Works of the Vologda
Scientific-Research Institute of Epidemiology
and Microbiology), 1950, No.1

Mikrobiologiya, Vol XX, No. 5, 1951

W-24635

KORSAKOVA , M.P. and ZAERODINA, O.L.

"The Role of Dissociation in the Interrelationships Between Phages and Krause-Sonne Bacteria,"
Zhur Mikrobiol, Epidemiol i Immunobiol, 1950

No. 4

Mikrobiologiya, Vol. XX, No. 5, 1951

● W-24635

KORSAKOVA, M.P.; ZABRODINA, O.L.

Phage typing of local Sonne bacterias. Zhur.mikrobiol.epid.i imun.
no.4:79 Ap '54. (ИЛР 7:5)

1. Is Vologodskogo instituta epidemiologii i mikrobiologii.
(*Shigella paradysenteriae*)

VAKAR, A.B.; EL'-MILIGI, A.K.; TOLCHINSKAYA, Ye.S.; ZABRODINA, T.M.

Physicochemical properties of gluten determining its quality.
Biokhim. zер. i khlebopech. no.7:3-62 '64.

(MIRA 17:9)

1. Institut biokhimii imeni Bakha AN SSSR i Vsesoyuznyy
nauchno-issledovatel'skiy institut zerna.

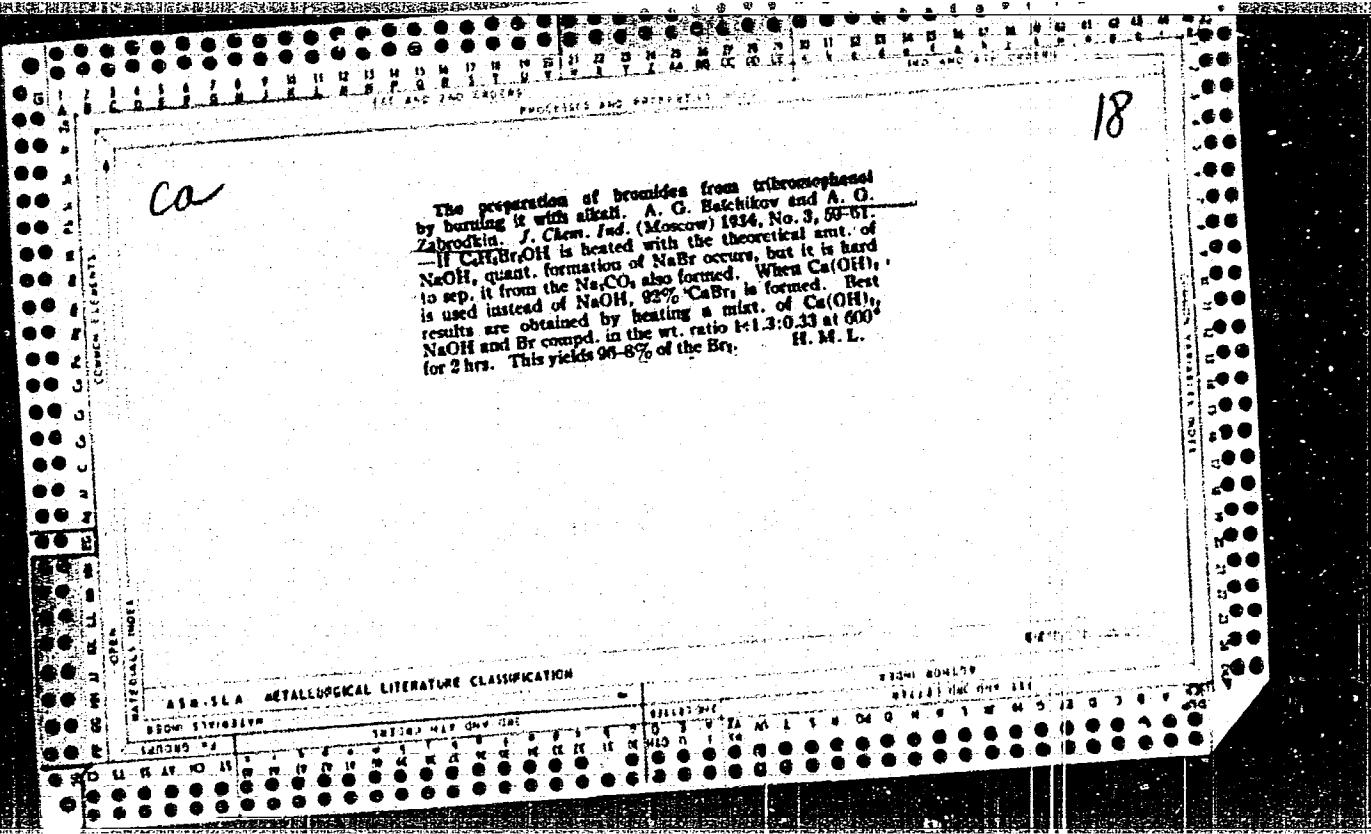
ZABRODINA, V. S.

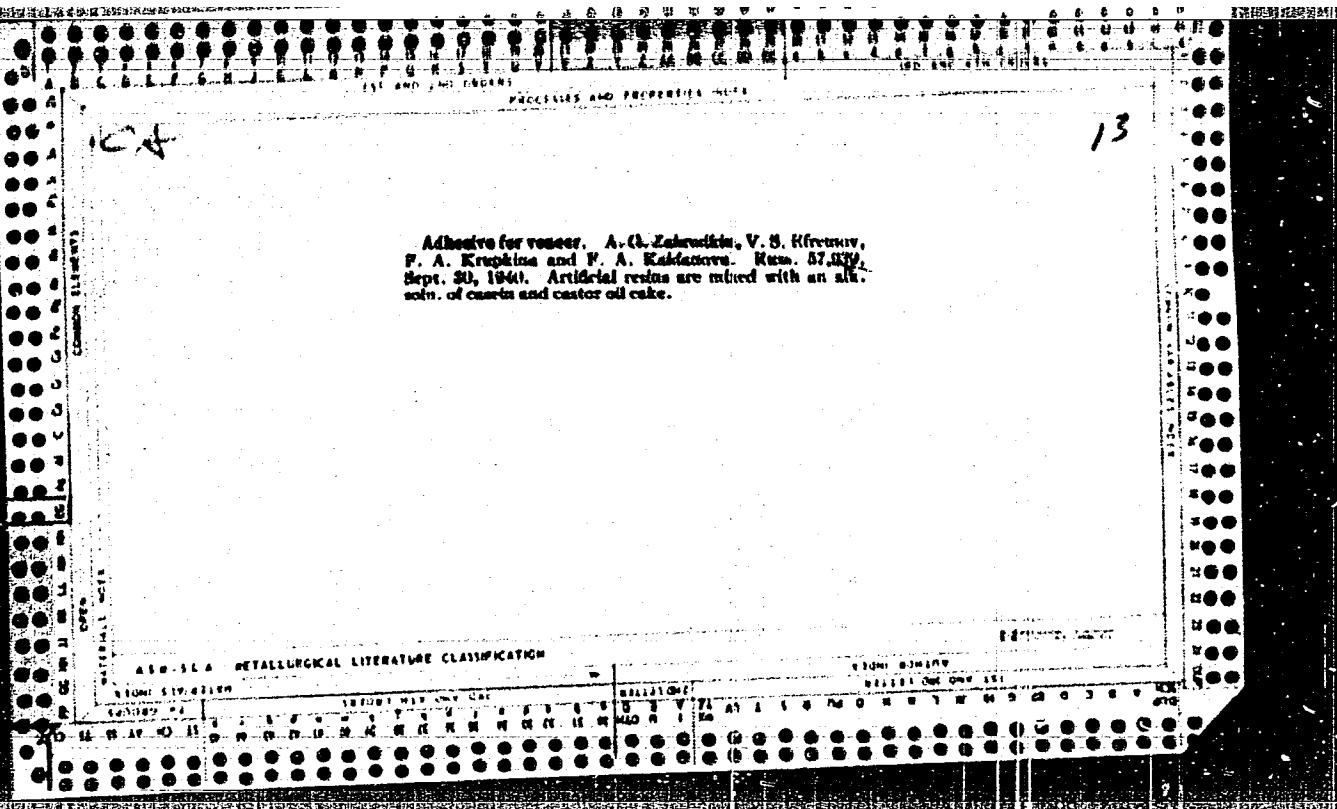
27776. ZABRODINA, V. S. — Proizvodstvo cherepitsy... (Opyt brigad tekhn. pomoshchi Rosstromprojekta). Mest. Stroit. Materialy, 1948, Vyp. 10, S. 16-23.

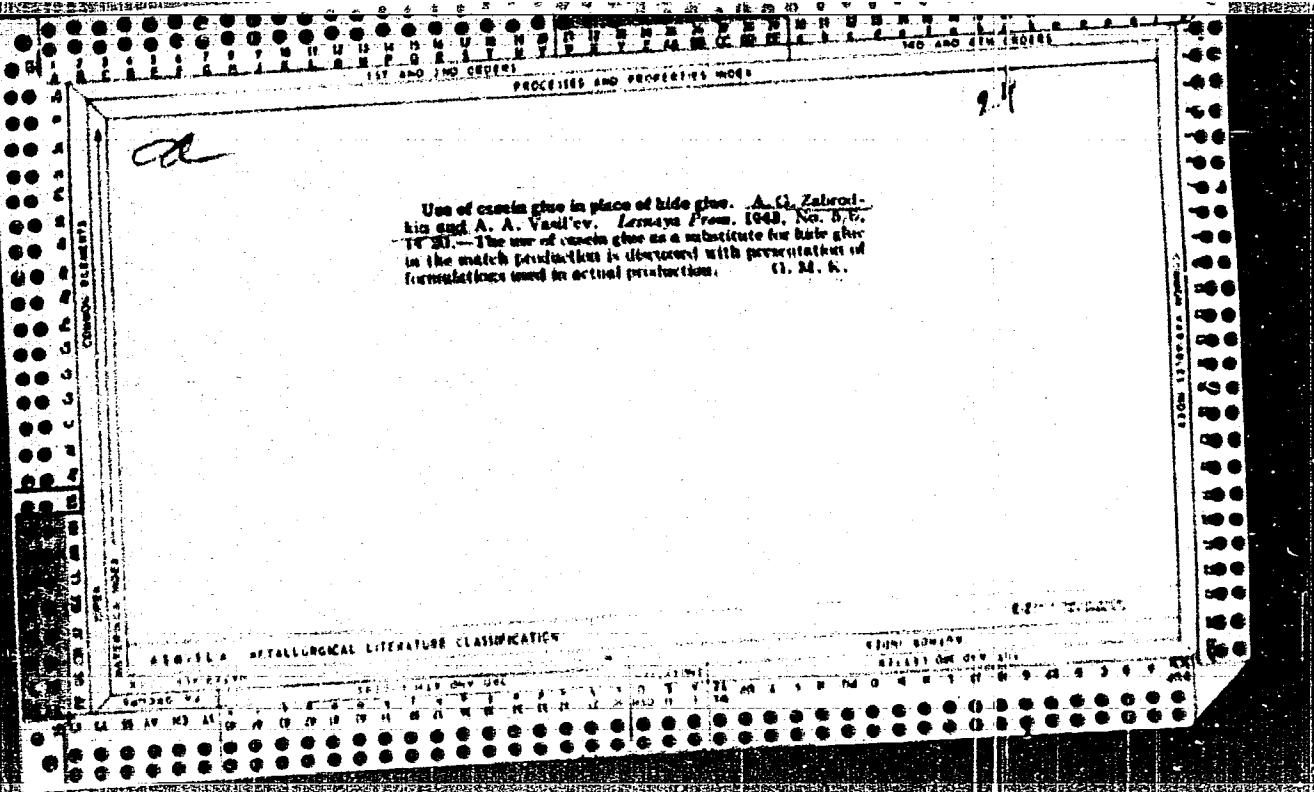
SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949.

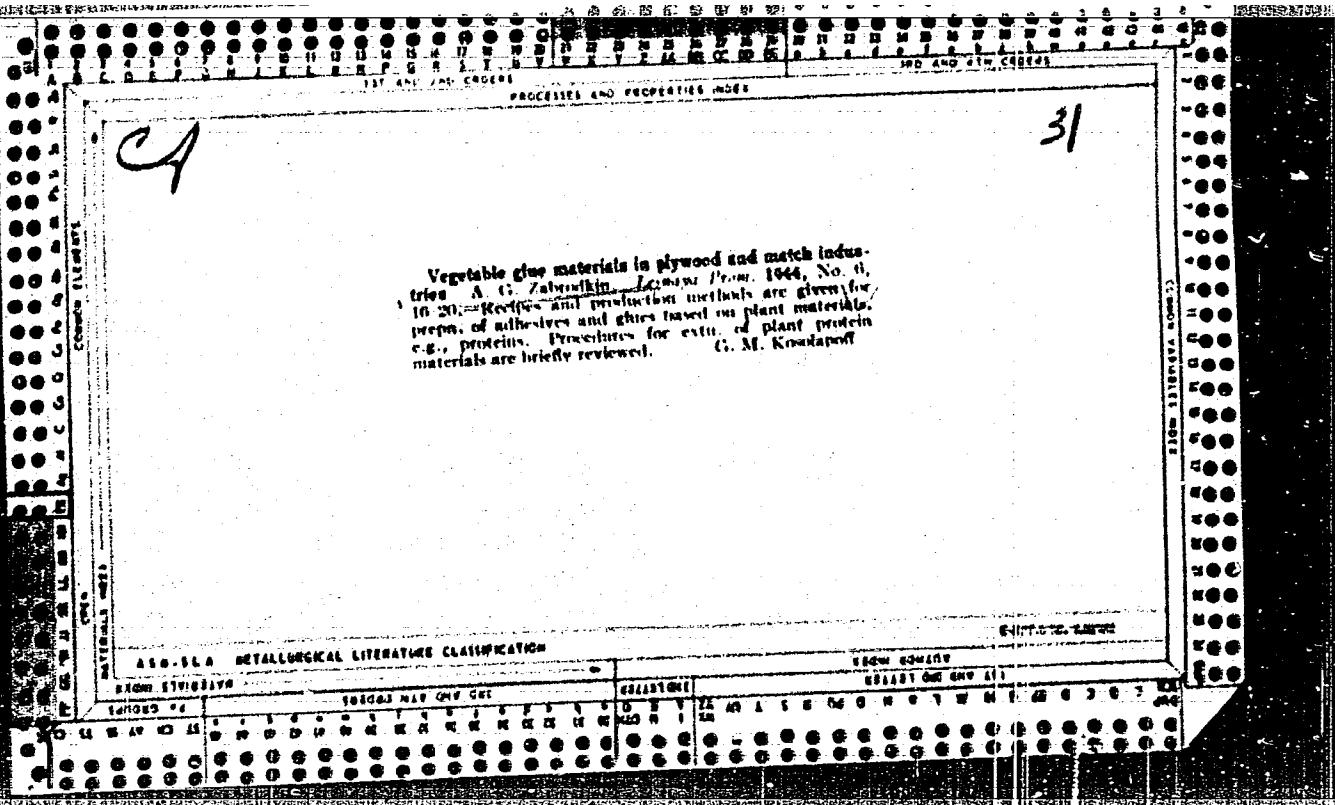
ZABRODINA, Valentina Vasil'yevna; DUNOVA, Z.K., red.

[Industrial finance] Finansy promyshlennosti. Moscow,
Vysshiaia shkola, 1964. 123 p. (MIRA 18:1)









The effect of bases on the properties of water-soluble resin in plywood production. A. G. Zalutskin, Leningrad

From: 1946, No. 5, 202. - The effect of NaOH on the properties of resin on dry wood was studied by drying the wood coated with resin to 0.10%, and storing at 5° and 20°, humidity and at 20° in a moist chamber. Condensation of the resin is more nearly complete with the increase in the amt. of NaOH added before the reaction. Aging of low-alkali resins has little effect on the adhesive properties of the resin. Low-alkali resin dissolves in bases (even in the gel state). NaOH does not change the adhesive properties of dry resin. Low-alkali resin can be dried with 5% NaOH before it until the desired consistency is reached. Decreasing the alkali content of water-sol. resin from 5 to 3% prolongs the life of the resin. The adhesive properties of the resin are not affected by a decrease in its alkali content. Low-alkali resin on dry wood can be kept for 2-3 months without losing its adhesive power. W. R. Helm

ASA 5-58 METALLURGICAL LITERATURE CLASSIFICATION

Adhesive problems in the manufacture of veneer.
A. G. Zalgorskis, *Leknaya Prom.* 1946, No. 10, 29-30.
Vegetable proteins are suitable as addit. ingredients to
substitute for phenolic resins. Compos., evap. yields,
and adhesive characteristics are given for a no. of proteins,
e.g. from ritch seed, H₂O 13.3, N 5.0, ash 3.2, fat 1.7,
non-N matter 49.8; from soybean cake, H₂O 9-12, N < 8,
fat < 18; content of vegetable protein in raw material
31 and 43-50%, resp.; degree of extn. (treatment with
0.2% NaOH and ppts. with HCl) 50% for both; ad-
hesion 18.4-21.0 and 14-25 kg./sq. cm., resp.; water
resistance on boiling 1 hr., 3.0-12.0 and 4-10 kg./sq. cm.,
resp.

A 50-51 A METALLURGICAL LITERATURE CLASSIFICATION

S/672/62/000/011/006/011
D403/D307

AUTHORS: Glushenkova, Ye. I., Batrukkin, A. G., Liyava, V. Yu.
and Semenov, S. S.

TITLE: Adhesive resins from hydrogenation phenole

Leningrad. Vsesoyuznyy nauchno-issledovatel'nyy institut po nefti i gaza. Trudy, no. 11, 1964. Naukovo-tekhnicheskaya literatura po nefti i gazu. Ser. 1, No. 1, 1964. Kharakteristika i issledovaniya polimerizatsii pererabotki, 120-126

The present work is an indirect continuation of earlier studies by the authors (see, for example, Trudy VNIIKh, Shale Institute ESNKA, Trudy IN-ta gipronefti, no. 1, 1961; Trudy VNIIIT, no. 9, Gostoptekhnizdat, 1961) and VNIIT (Trudy VNIIT, no. 9, Gostoptekhnizdat, 1961). The investigation was effected at using the substances obtained by the polymerization purification of shale phenole as the raw material for the production of adhesive resins. Hydrogenation phenole and phenols obtained during the hydrogenation of petroleum were used to make the resins. The adhesive residues above 120°C. were used to make the resins. The adhe-

Card 1/2

Adhesive resins from ...

S/672/62/000/011/006/011
D403/D307

Gives were tried on plywood and bakelite-treated plywood, at 140 - 150°C, and under 19 - 23 At. 7" - 10 Kg and respectively 15 min. and 20 min. Bakelite resin may be used as adhesives with additions of 15% of triacetin or acetyl. In the absence of additives, the resins may only serve as adhesives if the pressing times are increased by 50 - 100%. The adhesives are also improved by additions of 5.0 - 6.5% of resorcinol or technical dimethylresorcinol; such glues are suitable for bakelite-treated plywood. (See app.)

Card 2/2

ZABRODIN, A. G.

Plywood Industry

Decreasing losses of auxiliary material in the plywood industry. Der. i lesokhim. prom. 1, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

ZABROKIN, A.G., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii.

Determining the thermal cycle for gluing wood with urea resins. Ber. 1
lesokhim.prom. 2 no. 6:15-19 Je '53. (MLRA 6:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Resins, Synthetic)

ZABROD'KIN, Aleksandr Gavrilovich, kandidat tekhnicheskikh nauk, laureat Stalinskoy premii; KRAZOVSKIY, S.P., retsenzent; LEBEDEV, V.S., retsenzent; SMIRNOV, A.V., redaktor; KARASIK, N.P., tekhnicheskiy redaktor.

[Chemistry and technology of adhesives] Khimiia i tekhnologiya kleevykh veshchestv. Moskva, Goslesbumisdat, 1954, 220 p.
(Adhesives) (MLRA 7:12)

ZABRODKIN, A.G., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii.

Carbamide resins and their use in the furniture industry. Dzer.prom.
4 no.10:3-5 0 '55. (MEBA 9:1)

1. fSentral'nyy Nauchno-issledovatel'skiy institut fanery i mebeli.
(Furniture industry) (Urea)

ZABRODKIN, A.G., kandidat tekhnicheskikh nauk.

Characteristics of carbamide resins used in the furniture industry
abroad. Ber.prom. 5 no.7:27-28 Jl '56. (MIRA 9:9)
(Glue) (Urea)

ZABRODKIN, A. G.

I-25

USSR Chemical Technology. Chemical Products
and Their Application

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32480

Author : Zabrodkin A.G., Sultanbek R. Kh.

Title : Use of Liquid Phenols Derived from Coal in Ply-
wood Manufacture

Orig Pub: Derevoobrabat. prom-st', 1956, No 8, 9-11

Abstract: A procedure has been worked out for the preparation of adhesive resins from liquid phenols of coal, supplied in accordance with GOST 5361-50, without addition of synthetic phenols. Two manufacturing formulas of the resin are recommended: one containing 40% solids and 5% alkali and one

Card 1/2

USSR Chemical Technology. Chemical Products
and Their Application

I-25

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32480

containing 45% solids and 4.5% alkali. The
resins prepared according to the two formulas
have identical physico-chemical characteristics
and adhesive properties.

Card 2/2

ZABRODKIN, A.G., kandidat tekhnicheskikh nauk.

Labor protection in working with resin glues. Der. prom. 6 no.2:
17-18 F '57. (MIRA 10:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Chemistry, Technical--Safety measures)
(Gums and resins, Synthetic)

ZABRODKIN, A.G., kandidat tekhnicheskikh nauk.

Plywood gluing without preliminary drying of resin covered
veneer. Der.prom. 6 no.6:7-9 Je '57. (MIRA 10:8)

1.TSentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Veneers and veneering)
(Gums and resins, Synthetic)

ZABRODKIN, A.G.
PLOTNIKOVA, G.P.; MIRKOVICH, R.A.; ZABRODKIN, A.G.

Adhesive films in the furniture industry. Der.prom. 6 no. 7:7-9
Jl 197. (MIRA 10:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Gums and resins, Synthetic) (Furniture industry) (Gluing)

ZABRODKIN, A. G.
ZABRODKIN, A.O.; ARTSYshevskaya, Ye.K.

Using raw phenols in producing the FSL water-soluble resin. Der.
prom. 7 no.2:18 F '58. (MIRA 11:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Phenols) - (Gums and resins)

ZABRODIN, A.G., kand. tekhn. nauk

Modern gluing materials. Der. prom. 7 no. 6:15-16 Je '58.
(MIRA 11;8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Glue)

ZABRODKIN, A.G.; LIYEVA, V.Yu.; VASIL'YEV, M.L.

Synthesis of gluing materials from high-boiling shale-oil phenols.
Khim. i tekhn. slan. i prod. ikh perer. no. 9:236-241 '60.

(MIRA 15:6)

(Glue) (Oil shales) (Phenols)

ZABRODKIN, A.G.; ZELENIN, N.I.; LIYEVA, V.Yu.; FEOLILOV, Ye.Ye.;
VASIL'YEV, M.L.

Plane tests of synthetic adhesives on a base of shale phenols
boiling at temperature up to 300°. Khim. i tekhn. gor. silan.
i prod. ikh perer. no.10:246-252 '62.

(MIRA 17:5)

Plant tests of synthetic adhesives on a base of shale tar
phenols combined with tricresol and boiled away at
temperature above 300°. Ibid.:253-256

GLUSHENKOVA, Ye.V.; LIYEVA, V.Yu.; SEMENOV, S.S.; ZABRODGIN, A.G.;
GONCHAROV, V.I.; KALASHNIKOVA, Ye.B.

Adhesive resins from shale phenols of nonalkaline separation.
Trudy VNIIT no.12 '83-'89 '63. (MIRA 18:11)

ZABRODKIN, A.G., kand. tekhn. nauk

Synthetic glues for the manufacture of plywood. Der. prem.
14 no. 12:9-12 D '65. (MIRA 18:12)

ZABRODKIN, A.G., kand. nauk

Use of synthetic glues in the production of plywood. Der. prom.
14 no. 6:5-7 Je '65. (MIRA 18:7)

1. TsNIIF.

TEMKINA, Riva Zakharovna, kand. khim. nauk; ZAIRODKIN, A.G.,
red.

[Technology of synthetic resins and adhesives] Tekhnologiya
sinteticheskikh smol i kleev. Moskva, Lesnaya pro-
myshl., 1965. 210 p. (MIRA 18:4)

GLUSHENKOVA, Ye. V.; ZABRODGIN, A. G.; LIYEVA, V. Yu.; SEMENOV, S. S.

Adhesive tars from hydrogenated phenols. Trudy VNIIT no. 11:120-
126 '62. (MIRA 17:5)

ZABRODKIN, A.G., kand.tekhn.nauk

Additional raw material sources for the manufacture of urea-phenol-formaldehyde resins used in wood gluing. Der.prom. 11 no.12:3-4 D '62. (MRA 16:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii obrabotki drevesiny' (Adhesives) (Resins, Synthetic)

S/583/62/000/010,002/002
1001/I210

AUTHORS: Zabrodkin, A. G., Zelenin, N. I., Vasiliev, M. L., Feofilov, E. E. and Lieva, V. Yu.

TITLE: Industrial tests of synthetic adhesives based on phenols of shale resin, boiling at a temperature higher than 300°C, and admixed with tricresol

SOURCE: Estonian SSR. Institut slantsev. Khimiya i tekhnologiya goryuchikh slantsev i produktov ikh pererabotki, no. 10, Leningrad, 1962, 235-256

TEXT: This is a continuation of previous works (Zelenin, N. I., Vasiliev, M. L., Feofilov, E. E., Khimia i tekhnologiya goryuchikh slantsev i produktovikh pererabotki, no. 9, 1960, 204; Zabrodkin, A. G., Lieva, V. Yu., Vasiliev, M. L., ibidem 236). The adhesive resin prepared in the laboratory was tested in the Ust'-Izhorsk plywood factory and the results showed that the resin with admixture of tricresol, and ethyl alcohol as a solvent could be used in the production of bakelized plywood. There are 4 tables and 1 figure.

ASSOCIATION: Soviet narodnogo khazayastva ESSR reopravlenie slantsevoy i khimicheskay promishlevnosti: Nauchno-issledovatelskiy institut po dubychei pererabotke slantsev "Institut slantsev" (Soviet of National Economy of Estonian SSR, Administration of Shale and Chemical Industry. Scientific Research Institute for Extraction and Processing of Shales—"Shale Institute")

Card 1/1

S/583/62/000/010/001/002
I001/I210

AUTHOR: Zabrodkin, A. G., Zelenin, N. I., Lieva, V. Yu., Feofilov, E. E. and Vasilev, M. L.
TITLE: Industrial tests of synthetic adhesives based on shale-phenols boiling up to 300°C
SOURCE: Estonian SSR. Institut slantsev. Khimiya i tekhnologiya goryuchikh slantsev i produktov
ikh pererabotki, no. 10, Leningrad, 1962, 246-252

TEXT: The development of the plywood industry required by the 7-year Plan needs new and cheaper adhesives. TsNIIFM developed a new method for the preparation and condensation of a water-soluble resin from shale-phenols with addition of tricresol. The resin was controlled under industrial conditions at the Ust'-Izharsk plywood factory. The finished product responded to the standard requirements ГОСТ-3916-55 (GOST-3916-55). Phenols were obtained in 1960 at the pilot plant of the shale works im-Lenina. The use of this resin economizes 50% of tricresol compared with the resin ЦНИИФМ-С-35 (TsNIIFM-S-35) and it can be introduced into ФСФ (FSF) brand plywood. There are 5 tables and 1 figure.

ASSOCIATION: Soviet narodnogo khazyaystva ESSR reopravlenie slantsevoy i khimicheskay promish-
levnosti: Nauchno-issledovatel'skiy institut po dubchey pererabotke slantsev "Institut
slantsev" (Soviet of National Economy of Estonian SSR, Administration of Shale and
Chemical Industry. Scientific Research Institute for Extraction and Processing of Shales --
"Shale Institute")

Card 1/1